

ABSTRACT

A gramineous plant having tolerance to iron deficiency which can grow even in an area with iron deficiency. More particularly, a gramineous plant having tolerance to iron deficiency and capable of vigorously growing even in calcareous alkaline soil which is constructed by transferring a gene of an enzyme in the pathway of the biosynthesis of mugineic acids in gramineous plants into a gramineous plant. A method of constructing a gramineous plant having improved iron absorbability which comprises transferring a gene encoding an enzyme (preferably nicotianamine aminotransferase; NAAT) in the pathway of the biosynthesis of mugineic acids into a gramineous plant; a gramineous plant constructed by the above method; a method of cultivating the above gramineous plant having improved iron absorbability; and a crop obtained by the cultivation. Namely, the constructing of a novel gramineous plant having tolerance to iron deficiency.

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